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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,971	02/02/2004	Benny Madsen	11602.00.0012	9127
	7590 01/19/200 CE KAUFMAN & KA	EXAMÎNER		
222 N. LASALLE STREET			SIDDIQUI, SAQIB JAVAID	
CHICAGO, IL 60601			ART UNIT	PAPER NUMBER
			2138	
				
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/769,971	MADSEN ET AL.			
		Examiner	Art Unit			
		Saqib J. Siddiqui	2138			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		,				
1) 又	Responsive to communication(s) filed on 12/2	8/06.				
•—	•	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims		•			
4)⊠	Claim(s) 1-15 is/are pending in the application					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[Claim(s) is/are allowed.	,				
6)⊠	6)⊠ Claim(s) <u>1-15</u> is/are rejected.					
•	Claim(s) is/are objected to.					
8)[_	8) Claim(s) are subject to restriction and/or election requirement.					
Applicati	on Papers					
9)[The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) \square acc	epted or b) \square objected to by the ${ t E}$	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119		•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)		•			
1) Notice	1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
3) 🔲 Infor	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)			

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DETAILED ACTION

Applicant's response was received and entered December 28, 2006.

- Claims 1, 9, 12 and 15 have been amended.

Claims 1-15 are pending.

Response to Amendment

Applicant's arguments and amendments with respect to claims 1-15 filed

December 28, 2006 have been fully considered but they are moot under new grounds of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 and 4-15 are rejected under 35 U.S.C. 102 (b) as being fully anticipated by Sako et al. US Pat no. 4,819,236.

As per claim 1:

Sako et al. teaches a method for generating a reference transmission signal for use in testing a communications system (Figure 4), comprising capturing a data packet transmission signal containing a plurality of reference data (Figure 4 # 31A & 31D); digitizing said data packet transmission signal (Figure 4 # 32); retrieving at least a

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selected portion of said plurality of reference data from said digitized data packet transmission signal to produce a plurality of retrieved data (Figure 4, #33); modulating a carrier signal with said plurality of retrieved data to produce a digital transmission signal (Figure 4 # 35); and storing said digital transmission signal following said modulating of said carrier signal and prior to a use of said digital transmission signal in producing said reference transmission signal for transmission and demodulation (Figure 4 # 11).

As per claim 2:

Sako et al. teaches the method of claim 1 as rejected above, wherein said capturing a data packet transmission signal containing a plurality of reference data comprises receiving said data packet transmission signal as an analog signal (Figure 4 # 31A).

As per claim 4:

Sako et al. teaches the method of claim 1 as rejected above, wherein said capturing a data packet transmission signal containing a plurality of reference data comprises receiving said data packet transmission signal as a wired signal (column 6, lines 30-60).

As per claim 5:

Sako et al. teaches the method of claim 1 as rejected above, wherein said retrieving at least a selected portion of said plurality of reference data from said digitized data packet transmission signal to produce a plurality of retrieved data comprises demodulating at least a selected portion of said digitized data packet transmission signal to produce a plurality of demodulated data (column 8, lines 2-45).

As per claim 6:

Sako et al. teaches the method of claim 1 as rejected above, wherein said retrieving at least a selected portion of said plurality of reference data from said digitized data packet transmission signal to produce a plurality of retrieved data comprises decoding at least a selected portion of said digitized data packet transmission signal to produce a plurality of decoded data (Figure 4 # 42).

As per claim 7:

Sako et al. teaches the method of claim 1 as rejected above, wherein said modulating a carrier signal with said plurality of retrieved data to produce a digital transmission signal comprises encoding said carrier signal with said plurality of retrieved data (Figure 4 # 34).

As per claim 8:

Sako et al. teaches the method of claim 1 as rejected above, wherein said storing said digital transmission signal comprises storing said digital transmission signal in memory (Figure 4 # 11).

As per claim 9:

Sako et al. teaches the method of claim 1 as rejected above, further comprising modifying one or more selected bits of said plurality of retrieved data prior to said modulating a carrier signal with said plurality of retrieved data to produce a digital transmission signal (column 7, lines 5-50).

As per claim 10:

Sako et al. teaches the method of claim 1 as rejected above, further comprising: retrieving said stored digital transmission signal (column 6, lines 43-57); and frequency up-converting said retrieved digital transmission signal to produce said reference transmission signal (column 6, lines 5-68).

As per claim 11:

Sako et al. teaches the method of claim 10 as rejected above, further comprising modifying one or more selected bits of said plurality of retrieved data prior to said modulating a carrier signal with said plurality of retrieved data to produce a digital transmission signal (column 56, lines 20-45).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable in view of Sako et al. US Pat no. 4,819,236.

As per claim 3:

Sako et al. substantially teaches a method for generating a reference transmission signal for use in testing a communications system (Figure 4), comprising capturing a data packet transmission signal containing a plurality of reference data (Figure 4 # 25); digitizing said data packet transmission signal (Figure 4 # 26); retrieving at least a selected portion of said plurality of reference data from said digitized data packet transmission signal to produce a plurality of retrieved data (Figure 4, #27-31, column 5, lines 25-41); modulating a carrier signal with said plurality of retrieved data to produce a digital transmission signal (Figure 4 # 32, column 5, lines 35-42); and storing said digital transmission signal (Figure 4 # 28 & 38).

Sako et al. does not explicitly mention transmitting the packet wirelessly, however it would have been obvious to one having ordinary skill in the art at the time the invention was made to assume that the signal being received could be a wireless packet since it has been held that where the general conditions of a claim are disclosed

in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

As per claims 12-15:

These claims are directed to a method of the system of Claims 1-11. Sako et al. as stated above, teaches the system as set forth in Claims 1-11. Therefore, Sako et al. also teaches, either alone or in combination as stated above, the apparatus as set forth in claims 12-15.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saqib J. Siddiqui whose telephone number is (571) 272-6553. The examiner can normally be reached on 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Examiner's Note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Saqib Siddiqui Art Unit 2138 01/11/2007

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